

Emergency Management Competency 2.4

Competency 2.4 Emergency management personnel shall demonstrate an expert level knowledge of the notification and event classification requirements in Department of Energy (DOE) Order 5500.2, Emergency Categories, Classes, and Notification and Reporting Requirements.

1. Supporting Knowledge and Skills

- a. Define the categories and classes of emergency events as stated in DOE Order 5500.2, Emergency Categories, Classes, and Notification and Reporting Requirements.
- b. Define and discuss the notification requirements in DOE Order 5500.2, Emergency Categories, Classes, and Notification and Reporting Requirements, for the reporting of emergency events. Include in this discussion how these requirements differ from the reporting requirements in DOE Order 5000.3, Occurrence Reporting and Processing of Operations Information.
- c. Discuss the maximum time frame to make notifications (initial and follow-up) to off-facility (HQ, State, local, etc.) agencies after an emergency has been declared as identified in DOE Orders 5000.3, Occurrence Reporting and Processing of Operations Information, 5500.1, Emergency Management System, and 5500.2, Emergency Categories, Classes, and Notification and Reporting Requirements. Include in this discussion a description of the priorities for making these notifications.
- d. Discuss the reasons for making initial and follow-up notifications to off-site agencies as directed in DOE Order 5000.3, Occurrence Reporting and Processing of Operations Information, and DOE Order 5500.2, Emergency Categories, Classes, and Notification and Reporting Requirements.
- e. Compare the Department's notification requirements contained in DOE Order 5500.2, Emergency Categories, Classes, and Notification and Reporting Requirements, with those contained in the Resource Conservation and Recovery Act, Clean Water Act, Clean Air Act, Comprehensive Environmental Response, Compensation and Liability Act, Hazardous Material Transportation Uniform Safety Act, and the Emergency Planning and Community Right to Know Act.

Emergency Management Competency 2.4

2. Self-Study Activities (corresponding to the intent of the above competency)

Below are two web sites containing many of the references you may need.

Web Sites		
Organization	Site Location	Notes
Department of Energy	http://wastenot.inel.gov/cted/stdguido.html	DOE Standards, Guides, and Orders
U.S. House of Representatives	http://law.house.gov/cfr.htm	Searchable Code of Federal Regulations

Read DOE Order 5000.3B, *Occurrence Reporting and Processing of Operations Information*; DOE Order 5500.2B, *Emergency Categories, Classes, and Notification and Reporting Requirements*; and the DOE Emergency Management Guide *Guidance for Event Classification and Emergency Action Levels*, pages 1 through 9.

- EXERCISE 2.4-A State in your own words DOE's policy regarding the categorization and reporting of event occurrences.
- EXERCISE 2.4-B In your own words, define the "operational" and "energy" categories of emergency events that can affect or involve DOE.
- EXERCISE 2.4-C What are DOE's categories for less severe events, in what regulation are these addressed, and what are the notification requirements for both?
- EXERCISE 2.4-D Identify the three classes of operational emergencies and describe each in terms of potential release of hazardous material at a nonreactor nuclear facility.
- EXERCISE 2.4-E What are the requirements for oral and written notification by the site/facility to DOE for emergencies? Which documents state these requirements? Which Order's requirements takes precedence?
- EXERCISE 2.4-F What are the requirements for oral and written notification by the site/facility to off-site agencies (regional, Federal, state, tribal, and local) for emergencies? Which documents state these requirements? Which Order's requirements takes precedence?

Emergency Management Competency 2.4

- EXERCISE 2.4-G How is support from national response organizations elicited?
- EXERCISE 2.4-H What are the circumstances under which follow-up (emergency) notification to DOE is required of the facility/site?
- EXERCISE 2.4-I What are the typical contents of the written reports of the emergency that are submitted to DOE?
- EXERCISE 2.4-J (a) Compare the notification requirements for a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-reportable release with those requirements of a DOE emergency; and (b) determine which would take precedence in a DOE emergency involving a spill or release of a CERCLA-reportable hazard.

3. Summary

Review DOE Order 5000.3B, *Occurrence Reporting and Processing of Operations Information*; DOE Order 5500.2B, *Emergency Categories, Classes, and Notification and Reporting Requirements*; and the DOE Emergency Management Guide *Guidance for Event Classification and Emergency Action Levels*, pages 1 through 9.

4. Exercise Solutions

- EXERCISE 2.4-A State in your own words DOE's policy regarding the categorization and reporting of event occurrences.
- ANSWER 2.4-A It's DOE's policy to (a) categorize and make notifications for all occurrences in accordance with DOE Order 5000.3A, and for emergencies, (b) to make the appropriate notifications and (c) to monitor the event for reclassification as necessary.
- EXERCISE 2.4-B In your own words, define the "operational" and "energy" categories of emergency events that can affect or involve DOE.
- ANSWER 2.4-B Operational - Significant accidents, incidents, events, or natural phenomena that seriously degrade the safety or security of DOE facilities.

Emergency Management Competency 2.4

Energy - A condition or a potential condition affecting the supply of energy or the energy infrastructure with significant potential impact on the national economy or security, defense preparedness, and/or health and safety.

EXERCISE 2.4-C What are DOE's categories for less severe events, in what regulation are these addressed, and what are the notification requirements for both?

ANSWER 2.4-C The categories for less severe events, which are addressed in DOE Order 5000.3A, are Unusual Occurrence and Off-Normal. In the Unusual Occurrence, DOE is notified within two hours of categorization; in the Off-Normal event, DOE is notified in writing before the close of the next business day from the time of categorization (not to exceed 80 hours).

EXERCISE 2.4-D Identify the three classes of operational emergencies and describe each in terms of potential release of hazardous material at a nonreactor nuclear facility.

ANSWER 2.4-D

The Three Classes of Operational Emergencies	
Class	Description*
Alert	Any release of hazardous material (rad or non-rad) expected to be limited to small fractions of the PAG or ERPG exposure levels.
Site Area Emergency	Any release of hazardous material (rad or non-rad) expected to exceed the PAG or ERPG exposure levels on site, but not expected to exceed the PAG or ERPG levels off site.
General Emergency	Any release of hazardous material (rad or non-rad) that can reasonably be expected to exceed the PAG or ERPG exposure levels off site.

*In terms of potential release of hazardous material at a nonreactor nuclear facility

Emergency Management Competency 2.4

EXERCISE 2.4-E What are the requirements for oral and written notification by the site/facility to DOE for emergencies? Which documents state these requirements? Which Order's requirements takes precedence?

ANSWER 2.4-E From DOE 5500.2B: To DOE HQ EOC within 15 minutes of categorization and in writing within 24 hours.
From DOE 5000.3B: To DOE within 15 minutes of categorization and in writing within 80 hours.

DOE Order 5500.2B takes precedence. Consult your local SME for further interpretation.

EXERCISE 2.4-F What are the requirements for oral and written notification by the site/facility to off-site agencies (regional, Federal, state, tribal, and local) for emergencies? Which documents state these requirements? Which Order's requirements takes precedence?

ANSWER 2.4-F From DOE Order 5500.2B: To off-site agencies within 15 minutes of categorization and in writing in accordance with approved agreements or emergency procedures.
From DOE Order 5000.3B: To off-site agencies within 15 minutes of categorization (if DOE Order 5500.2B is invoked for an emergency) and in writing within 80 hours.

DOE Order 5500.2B takes precedence. Consult your local SME for further interpretation.

EXERCISE 2.4-G How is support from national response organizations elicited?

ANSWER 2.4-G The facility/site must call their local DOE field office EOC and request specific assistance.

Emergency Management Competency 2.4

EXERCISE 2.4-H What are the circumstances under which follow-up (emergency) notification to DOE is required of the facility/site?

ANSWER 2.4-H 1. Further degradation of the level of facility safety or worsening conditions
2. Change in one emergency class or category to another
3. Termination of an emergency

EXERCISE 2.4-I What are the typical contents of the written reports of the emergency that are submitted to DOE?

ANSWER 2.4-I 1. Significance, nature, and extent of the event/condition
2. Cause (including the root cause, if known)
3. Immediate actions, recovery actions, or corrective actions (if root cause known)

EXERCISE 2.4-J (a) Compare the notification requirements for a CERCLA-reportable release with those requirements of a DOE emergency;
(b) determine which would take precedence in a DOE emergency involving a spill or release of a CERCLA-reportable hazard.

ANSWER 2.4-J (a) For CERCLA, call the National Response Center within 24 hours (§302.6); for a DOE emergency, call DOE HQ within 15 minutes; (b) the DOE requirement.